

VU Research Portal

Cardiac Troponin I Phosphorylation: Exchanging Ideas

Wijnker, P.J.M.

2013

document version

Publisher's PDF, also known as Version of record

[Link to publication in VU Research Portal](#)

citation for published version (APA)

Wijnker, P. J. M. (2013). *Cardiac Troponin I Phosphorylation: Exchanging Ideas*. [, Vrije Universiteit Amsterdam].

General rights

Copyright and moral rights for the publications made accessible in the public portal are retained by the authors and/or other copyright owners and it is a condition of accessing publications that users recognise and abide by the legal requirements associated with these rights.

- Users may download and print one copy of any publication from the public portal for the purpose of private study or research.
- You may not further distribute the material or use it for any profit-making activity or commercial gain
- You may freely distribute the URL identifying the publication in the public portal ?

Take down policy

If you believe that this document breaches copyright please contact us providing details, and we will remove access to the work immediately and investigate your claim.

E-mail address:

vuresearchportal.ub@vu.nl

CONTENTS

Chapter 1	General introduction and outline of the thesis	9
Chapter 2	Protein phosphatase 2A affects myofilament contractility in non-failing but not in failing human myocardium	25
Chapter 3	Impact of site-specific phosphorylation of protein kinase A sites Ser23 and Ser24 of cardiac troponin I in human cardiomyocytes	49
Chapter 4	Modulation of length-dependent activation by cardiac troponin I phosphorylation at the protein kinase C site Thr143 and the protein kinase A sites	71
Chapter 5	Phosphorylation of protein kinase C sites Ser42/44 decreases Ca^{2+} -sensitivity and blunts enhanced length-dependent activation in response to protein kinase A in human cardiomyocytes	95
Chapter 6	Increased Ca^{2+} -sensitivity at low Ser199 pseudo-phosphorylation at the C-terminus of cardiac troponin I in human cardiomyocytes	121
Chapter 7	Perturbed length-dependent activation in human hypertrophic cardiomyopathy with missense sarcomeric gene mutations	137
Chapter 8	Summary, Conclusion & Future perspectives	167
Chapter 9	Nederlandse samenvatting	183
	List of Publications	189
	Dankwoord	193
	Curriculum vitae	197